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L1	4	((("6877045") or ("6754734"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 18:57
L2	12	((("5522054") or ("6098149") or ("6301640") or ("6012104") or ("6502205") or ("6671767"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 18:35
L3	0	2 and shell	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 18:35
L4	3	2 and bypass\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 18:35
L5	36640	I/O with (bypass\$3 or port\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 18:58
L6	866	direct near4 access near4 command	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 18:59
L7	196	6 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 18:59
L8	32	6 same 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 19:03

L9	151	queue\$3 near8 access near8 I/O	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 19:04
L10	5421	shell with interface	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 19:04
L11	4	9 and 10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/04/28 19:05
L12	3196	(707/100).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:05
L13	1715	(707/101).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:05
L14	1909	(707/200).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:05
L15	934	(710/5).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:05
L16	311	(710/6).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:05

L17	102	(710/24).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:05
L19	1126	(711/100).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:06
L20	1396	(711/112).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:06
L21	931	(711/113).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/28 19:06



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Relevance scale ☐ ☐ ☐ ☐ ☐1 [Multi-model parallel programming in psyche](#)

M. L. Scott, T. J. LeBlanc, B. D. Marsh

February 1990 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN symposium on Principles & practice of parallel programming**, Volume 25- Issue 3

Full text available: pdf(1.48 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many different parallel programming models, including lightweight processes that communicate with shared memory and heavyweight processes that communicate with messages, have been used to implement parallel applications. Unfortunately, operating systems and languages designed for parallel programming typically support only one model. Multi-model parallel programming is the simultaneous use of several different models, both across programs and within a single program. This paper describes mu ...

2 [Distributed file systems: concepts and examples](#)

Eliezer Levy, Abraham Silberschatz

December 1990 **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4

Full text available: pdf(5.33 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

3 [The network Unix system](#)

Gregory L. Chesson

November 1975 **Proceedings of the fifth ACM symposium on Operating systems principles**

Full text available: pdf(784.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A Network Interface Program (NIP) is that part of an operating system which interfaces with similar entities in a network. Normally, the NIP is a collection of software routines which implement interprocess communication, interhost protocols, data flow controls, and other necessary executive functions. This paper discusses the organization of the NIP currently being used with the Unix operating system on the ARPA network. The Network Unix system is noteworthy because of the natural way that ...

Keywords: ARPANET, Operating system, Protocol, Unix

4 Application performance and flexibility on exokernel systems

M. Frans Kaashoek, Dawson R. Engler, Gregory R. Ganger, Héctor M. Briceño, Russell Hunt, David Mazières, Thomas Pinckney, Robert Grimm, John Jannotti, Kenneth Mackenzie
October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  [pdf\(2.39 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


5 Interactive Editing Systems: Part II

Norman Meyrowitz, Andries van Dam
September 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 3

Full text available:  [pdf\(9.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Process migration

September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3


Full text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

7 Zones, contracts and absorbing changes: an approach to software evolution


Huw Evans, Peter Dickman
October 1999 **ACM SIGPLAN Notices , Proceedings of the 14th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**, Volume 34 Issue 10

Full text available:  [pdf\(2.46 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a novel approach to managing the evolution of distributed, persistent systems at run-time. This is achieved by partitioning a system into disjoint zones, each of which can be evolved without affecting code in any other. Contracts are defined between zones, making type-level interdependencies and inter-zone communication explicit. Programmer supplied code is added to the running system, at the boundary between zones, to constrain the sco ...

8 The LOCUS distributed operating system

Bruce Walker, Gerald Popek, Robert English, Charles Kline, Greg Thiel
October 1983 **ACM SIGOPS Operating Systems Review , Proceedings of the ninth ACM symposium on Operating systems principles**, Volume 17 Issue 5

Full text available:  [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

LOCUS is a distributed operating system which supports transparent access to data through a network wide filesystem, permits automatic replication of storage, supports transparent distributed process execution, supplies a number of high reliability functions such as nested transactions, and is upward compatible with Unix. Partitioned operation of subnet's and their

dynamic merge is also supported. The system has been operational for about two years at UCLA a ...

9 Session 14: cluster computing: NAS experiences with a prototype cluster of workstations

K. Castagnera, D. Cheng, R. Fatoohi, E. Hook, B. Kramer, C. Manning, J. Musch, C. Niggley, W. Saphir, D. Sheppard, M. Smith, I. Stockdale, S. Welch, R. Williams, D. Yip

November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**


Full text available:  [pdf\(987.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper discusses the year-long activity at NAS to implement a large, loose cluster of workstations from the existing Silicon Graphics, Inc. (SGI) pool of systems. Issues related to establishing a loosely coupled cluster of workstations are presented. Included are steps needed to resolve system management issues intended to provide reasonable cycle recovery from these systems without disrupting the primary system users. Performance evaluation tests were run based on the NAS Parallel Benchmark ...

10 The integration of virtual memory management and interprocess communication in Accent

Robert Fitzgerald, Richard F. Rashid

May 1986 **ACM Transactions on Computer Systems (TOCS)**, Volume 4 Issue 2

Full text available:  [pdf\(2.45 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The integration of virtual memory management and interprocess communication in the Accent network operating system kernel is examined. The design and implementation of the Accent memory management system is discussed and its performance, both on a series of message-oriented benchmarks and in normal operation, is analyzed in detail.

11 Javelin++: scalability issues in global computing

Michael O. Neary, Sean P. Brydon, Paul Kmiec, Sami Rollins, Peter Cappello


June 1999 **Proceedings of the ACM 1999 conference on Java Grande**

Full text available:  [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 jRapture: A Capture/Replay tool for observation-based testing

John Steven, Pravir Chandra, Bob Fleck, Andy Podgurski

August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 25 Issue 5

Full text available:  [pdf\(403.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe the design of jRapture: a tool for capturing and replaying Java program executions in the field. jRapture works with Java binaries (byte code) and any compliant implementation of the Java virtual machine. It employs a lightweight, transparent capture process that permits unobtrusive capture of a Java programs executions. jRapture captures interactions between a Java program and the system, including GUI, file, and console inputs, among other types, and on replay it presents each ...

Keywords: Java, capture/replay, execution profiling, observation-based testing, software testing

13 A survey of current object-oriented databases

Mansour Zand, Val Collins, Dale Caviness

February 1995 **ACM SIGMIS Database**, Volume 26 Issue 1

Full text available:  [pdf\(1.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Object-oriented concepts form a good basis for the data models required for next-generation database applications such as CAD/CAE/CASE/CAM systems, knowledge-based systems, multimedia, etc. Many object-oriented databases are available commercially or are being developed by industry or academic research facilities. This paper attempts to compare some of these products using fourteen criteria. The selected criteria are major factors required for the successful design of an object-oriented database ...

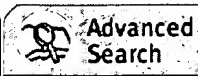
Keywords: OOD-BMS survey, object-oriented database, object-oriented terminology

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








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